



Space Science



Human Exploration



Biological & Physical Research

Leadership....Governance.....Competencies.....Technology Management

Communities

Partners & Suppliers

Industry Universities International Government Educators

Virtual Teams

Programs
Projects
Working Groups
Communities of
Practice, Interest

Employees

Corporate Management Staff

Public

General Public Media Educators Space Enthusiasts Students

Enabling Services and Technologies
IFM, ODIN, eCommerce, eLearning, Knowledge Mgmt, Collaboration,
Web Services, IT Infrastructure

Why eNASA?

- Enhance key mission, program, and project activities by providing revolutionary tools and services to solve critical problems
- Transform the way we work by enabling collaboration within and beyond NASA regardless of time, distance, or technology
- Enable the Agency to conduct its business more efficiently and effectively
- Leverage our workforce and other corporate resources by minimizing the duplication of efforts for shared/common services & capabilities
- Increase employee productivity by providing user-centric access to information delivery and applications, foster person-to-person communication, and increase awareness of NASA significant events
- Actively engage the public, partners, suppliers, and stakeholders in accomplishing and promoting the NASA mission

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Near Term: Deliver Prioritized Suite of Value-Add Services

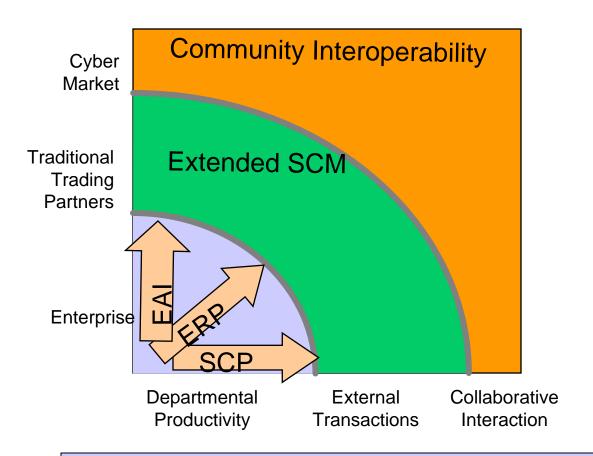
- Portal and Web Services
- Collaboration and Workgroup Services
- Document Management Services
- Data and Video Services
- Knowledge Capture Services

Longer Term: Enable Agency Rollout of Products and Services

- Facilitate infrastructure that provides basic technical performance level
- Assure vertical integration to improve end-to-end process efficiency, quality of service, safety and security
- Increase incentives for improving customer focus and satisfaction

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Supply Chain Management and Collaborative Commerce



Collaborative Commerce

- Enables interactions among personnel, partners & customers in a trading community
- End-to-end process including planning, design, procurement, logistics, asset management
- *Projected \$2.7T market by 2004 (\$33B for Aerospace)
- *Shift from competition between companies to nonlinear supplier chains
- *Shift from transaction focus to collaboration interaction
- *Information sharing is critical for competitive advantage
- *Lots of market hype and shake out: success measured by improvement to forecasting and product development

SCM and Aerospace & Defense Industry

Exostar exchange

Partners: Boeing, Lockheed Martin,

Raytheon & BAE

Scope: \$400B industry

Open to commercial, civil & military

MyAircraft exchange

Partners: Honeywell/GE, UT, BF Goodrich and 10 Airlines

Scope: Focus on aircraft parts

and maintenance market

Experience to Date

- * Operational < 6 months
- * Drive for B2B/SCM coming from CEOs
- * Goal to improve access to buy & sell markets not expecting cost savings
- * OEMs more confident, suppliers more anxious
- * Non-primes are optimistic about access to new customers
- * European companies slow to enter

NASA

- * NASA primes are predominant users of SCM technologies and exchanges
- * eNASA strategy and pilots are underway to define roadmap and requirements
- * IFM vendor capabilities may be leveraged

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Collaborative Commerce

- NAIS...FedBizOpps
- Supply Chain Mgmt
- Electronic Mktplaces
- On-Line Auctions
- Federal Commons

PI Start-Up Kit

International Portal

Team Start-Up Kit

- Virtual PM Tools
- Collaborative Tools
- Doc Mgmt
- Threaded Discussions
- Data and Video Conferencing
- "Return to Mars"
- Academy of Shared Knowledge

"Inside NASA" Portal

Global Nomadic Access

Employee Self Services

- Benefits
- Travel
- Directory

SOLAR Plus

"My NASA" Portal
"My Spacelink"

Webcast Services

- Content Delivery
- Training Vehicle

On Demand Video

Strategic Partnerships (ILN, NSTA SciLINKS)

• <u>SERVICE</u>	•CURRENT STATE	•eNASA OPPORTUNITY	• <u>INFRASTRUCTURE</u> <u>REQUIREMENTS</u>
•Phone			
• Local	•Mature	•Voice over IP	•WAN / LAN bandwidth, QOS
Long Distance	•Mature		
Voice Teleconferencing	•NISN VoTS service		
•Desktop			
Calendaring	•Multiple COTS products	Agencywide standard	•Directory storage and access
•Wordprocessing, spreadsheet, presentation	•Mature	•Mobile desktop	•Windows 2000, active directory, security
File sharing and transfer	•No Agencywide capability	•Investigate & make/buy	•WAN / LAN bandwidth, DEN
Admin tools	•NACC legacy, IFMP	•Enhanced tools (CISCO)	
Time/attendance	development, IFMP		
• Travel	development		
• Training	•Adminstar	•Streaming video, webcast	•WAN / LAN bandwidth, QOS
• Forms	•Agencywide standard	•Electronic routing & Digital signature	•PKI, Directory
Collaborative tools			•WAN / LAN bandwidth,
Collaborative design	•ISE development		Desktop
Doc generation and review / approval	•No Agencywide capability	•Investigate & make/buy	•Authentication and authorization via PKI
Action tracking	•No Agencywide capability	•Investigate & make/buy	•PKI
Project management	•Agencywide standard		
Videoconferencing	•NISN ViTS service, CEE rooms	•Desktop videoconferencing	•WAN / LAN bandwidth, QOS
• Printing	•Mature		
File storage	•No Agencywide capability	•Investigate & make/buy	•Data warehouse, WAN / LAN
• Email	•Mature, secure email in work		
Internet access	•Mature	•portal	•Web servers, WAN / LAN bandwidth

Leadership....Governance.....Competencies.....Technology Management

- NASA's "Net Readiness" posture to deliver customer focused value-add services requires:
 - Create a leadership environment that fosters desired cultural change
 - Implement the right governance process for achieving success
 - Strategically invest in critical infrastructure and competencies
 - Optimize a shared services model for delivering corporate excellence

Technology Management:

- What is the right IT services model for NASA?
- How do we maximize quality of service within current cost constraints?
- What standards should be imposed and how will they be enforced?
- What is the optimum IT sourcing strategy to meet business needs?

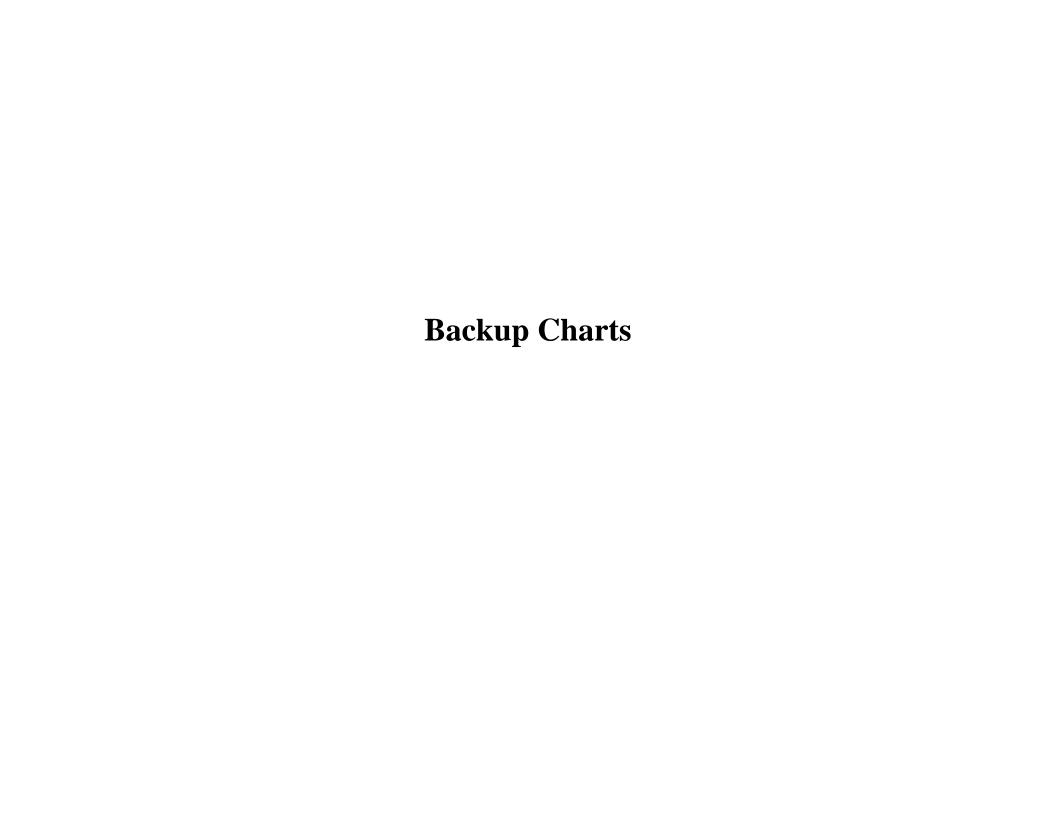
Service Model Option Examples:

- 1. Agency-wide service provision, with centralized payment
- 2. Agency -wide service provision on with allocation of costs by use
- 3. Agency -wide contract vehicle with local purchasing and management
- 4. Business Unit-wide service provision with center-wide payment
- 5. Business Unit -wide service provision with allocation of costs by use
- 6. Business Unit -wide contract vehicles with local purchasing and management

Today

- 7. Independent local procurement and management
- 8. Other sourcing strategies

		_			_				Likely range
Value Add Service	1	2	3	4	5	6	7	8	
Portal and Web Services									
Collaboration Services									
Document Management Services									
Data and Video Services									
eMail and Correspondence Services									
Knowledge Capture Services									
Quality of Service Management									



eNASA Approach

- Establish Agencywide eNASA Team
- Develop eNASA Strategy and Roadmap
 - eNASA Framework and Vision
 - Assessment of Current State
 - Benchmark Government and Industry Practices
 - Opportunities for Improvement
 - Strategy and Roadmap for:
 - Leadership, Governance, Competencies, Technology Management
 - Focus Areas and Priorities (Near and Long-Term)
 - Investment Strategies and Timelines
- Interdisciplinary Team Approach
 - Main team members supported by other established Agency teams
 - Work accomplished via weekly telecons, face to face team meetings, and use of a web-based collaborative tool
 - Support by Cisco, Gartner, and Booz Allen

eNASA Team

HQ/AO, Andrea Norris (Team Lead)

_	HQ/A	40 ,	Nancy	Kaplan
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- HQ/AS, Meg Tuma

- HQ/B, Rosemary Gregory

- HQ/B, Richard Brozen

- HQ/F, Joe McElwee

- HQ/F, Shelly Canright

HQ/H, Ken Stepka

HQ/J, Ali Montasser

HQ/M, Chris Burroughs

HQ/P, Brian Dunbar

- ARC/Bob Brummett

- GRC/Steve Prahst

GSFC/Paul Hunter

- GSFC/Emma Antunes

GSFC/Richard Day

GSFC/Al Gallo

LaRC/Manjula Ambur

LaRC/JoAnne Rocker

LaRC/Doug Craig

MSFC/Robert McBrayer

MSFC/Sheila Cloud

- MSFC/Terry Luttrell

- JSC/Vicki Pendergrass

KSC/Vanessa Stromer

- SSC/Gay Irby

JPL/Jeanne Holm

JPL/Jayne Dutra

eNASA Events

Dec 12-13	Cisco	Benchmarking	Trip/Team	Kick-Off

Jan 9-11 eNASA Team Kick-Off

March 1-2 eNASA Workshop 2

March 20 SAP Seminar

March 21-23 eNASA Workshop 3 Savoy Suites

April 17-19 eNASA Workshop 4 TBD, DC area

May 16-18 eNASA Workshop 5 TBD, DC area

June date TBD eNASA Workshop 6 TBD, DC area

Workshop 1: January 9-11, 2001

- Overview of eGov (External)
- Quick Current State Review/Top Level Opportunities
 - Buy Side: E-commerce
 - Sell Side: Citizen Service
 - Inside: Transforming Capabilities and Corporate Services
 - IT Infrastructure
 - Net Readiness Areas
- CISCO Facilitated Visioning Workshop
- Evolution of eNASA Framework
 - Focus on "Customer-Focused, Electronic Service Delivery to Enable Mission Success"
 - 4 Pillar Communities: Partners & Suppliers, Public, Virtual Teams,
 Employees
 - Enabling Service and Infrastructure
 - Leadership, Governance, Competencies and Technology
 Management as Critical Agency Success Elements

Workshop 2: March 1-2, 2001

- eNASA Awareness and Communication with Senior Management
 - Goldin Discussion
 - EAAs and Senior Management
 - NASA Performance Plan
 - Other Key Groups: EMC, PMCWG, PPM Focus Groups, APPL
- Refinement of Near and Longer Term Opportunities
- Identification of Who eNASA Team Will Work With
 - Community Representatives
 - "Best in Class" Candidates
- Approaches for Gathering Information
 - Focus Groups, Interviews, Site Visits, Surveys
- Next Workshop: March 20-23
 - Tactical Team Workplan and Tools
 - Final Product Outline
 - Corporate Discussions

- Benefits
- Participants on e-NASA Team
- History of development
 - Working council of CIOs of the Advisory Board
 - Visits to Oracle, CISCO etc
 - Strategic partnership with CISCO
 - BAH/Gartner consulting
 - Observations / Findings:
 - ERP history in industry prior to Y2K
 - Consolidations of functions at Oracle (\$1B), travel, procurement
 - Cisco efficiencies (close books daily) yield 5x rev \$/employee over Lucent
 - Net readiness survey Need to pay increased attention to governance (2/3 customer-focused and 1/3 common IT infrastructure); technology management; IT Infrastructure/services model
- Framework
 - Community-focus (what role desire)
 - Functional/Program Offices
 - AIA
 - Universities

Opportunities

- Near-term
 - Employee benefits
 - "My NASA", "My spacelink"
 - Web services pilots
 - Apply for and interoperate NASA PKI with Federal Bridge PKI
- Six months
 - E-learning tools/partnerships
 - Knowledge management efforts including APPL
 - E- markets/supply chain
 - Project manager tool kits
 - Portal study
- Six + months
 - Functional consolidation options (need underlying IT infrastructure)
 - Expanded IT services (collaboration tools, workgroup servies, document services, knowledge capture services)
 - New model for IT service/infrastructure governance and management
 - Nomatic computing

Benefits

Under the Strategic Plan objective: Enhance the security, efficiency, and support provided by our information technology resources

Add as a new Annual Performance Goal with indicators as follows:

Annual Performance Goal:

Enhance mission success through seamless, community-focused electronic service delivery by meeting 5 out of 5 performance indicators in this area.

FY 02 Performance Indicators:

- Develop the eNASA Strategic Plan and Roadmap to deliver value-added electronic services and information to the public, partners, suppliers, key stakeholders, and the internal employees and teams that execute NASA's missions.
- Make the NASA Web more accessible, more personalized, and more useful to all of NASA's diverse audiences as demonstrated by increased customer satisfaction from the FY 01 baseline survey results
- Increase the scope and level of corporate and shared electronic services.
- Support secure sharing of information government-wide by enabling our Public Key Infrastructure to interoperate with the Federal Bridge.
- Expand interagency efforts under the Federal Commons Initiative by posting competitive synopses, solicitiations, and grants online.